



PUMX1

DUAL TRANSISTOR

NPN GENERAL PURPOSE DUAL TRANSISTOR

DESCRIPTION

Two independently operating NPN transistors.

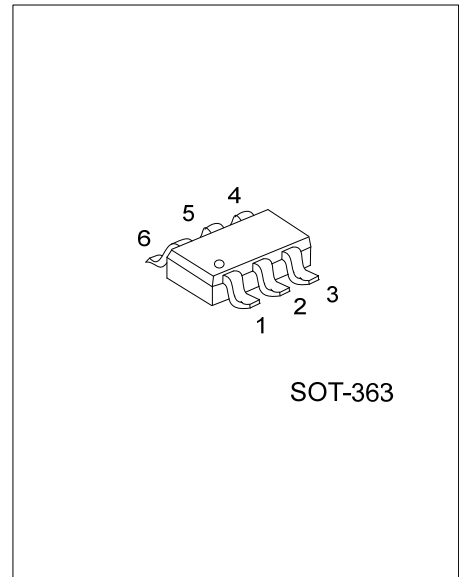
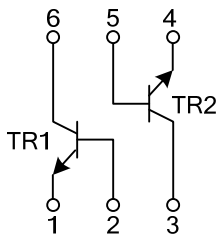
FEATURES

- * Low current (max.100mA)
- * Low voltage (max.40V)
- * Reduces number of components and board space.
- * Complement to PUMT1.

APPLICATIONS

- * General purpose switching and amplification.

SYMBOL



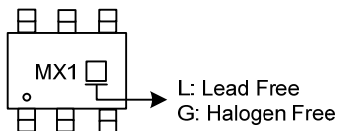
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment						Packing
Lead Free	Halogen-Free		1	2	3	4	5	6	
PUMX1L-AL6-R	PUMX1G-AL6-R	SOT-363	E1	B1	C2	E2	B2	C1	Tape Reel

Note: Pin Assignment: E: Emitter B: Base C: Collector

<p>PUMX1G-AL6-R</p> <p>(1) Packing Type</p> <p>(2) Package Type</p> <p>(3) Green Package</p>	<p>(1) R: Tape Reel</p> <p>(2) AL6: SOT-363</p> <p>(3) G: Halogen Free and Lead Free, L: Lead Free</p>
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MARKING



■ ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	50	V
Collector-Emitter Voltage	V_{CEO}	40	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current (DC)	I_C	100	mA
Peak Collector Current	I_{CM}	200	mA
Peak Base Current	I_{BM}	200	mA
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_J	+150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150	$^\circ\text{C}$

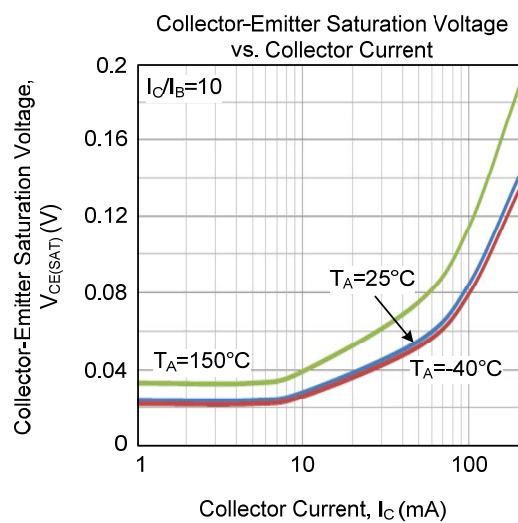
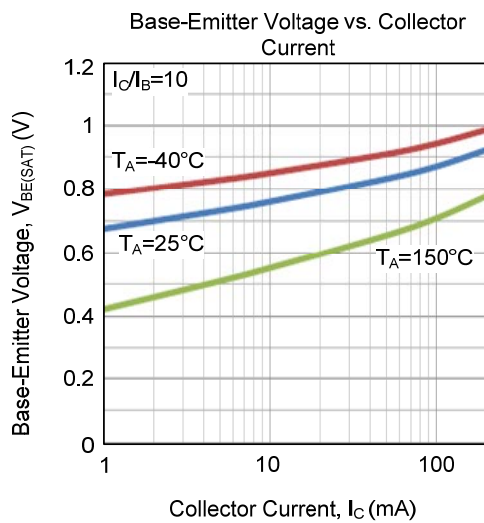
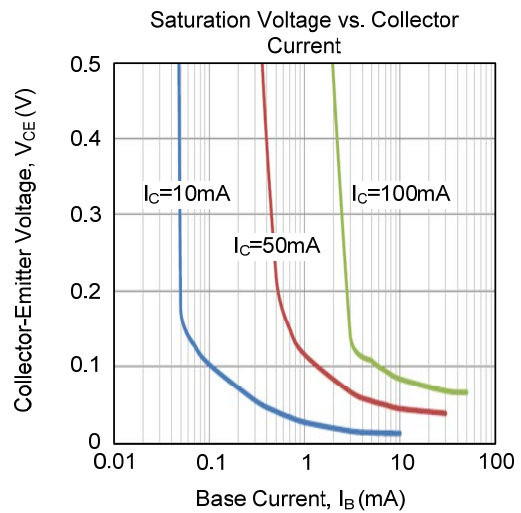
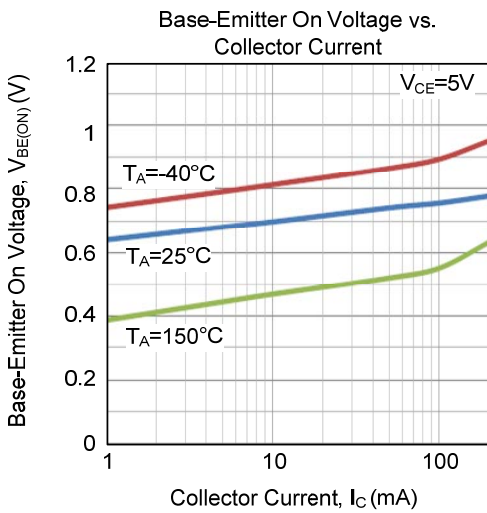
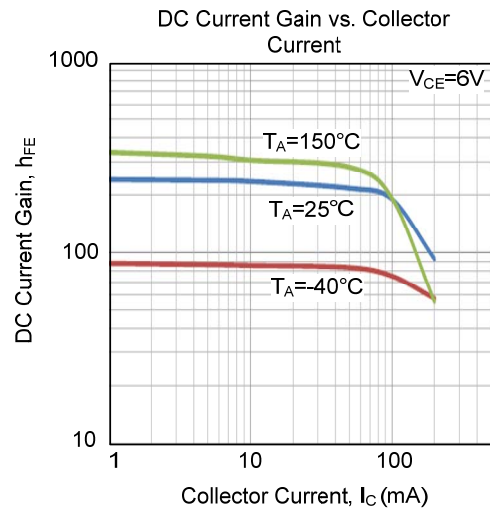
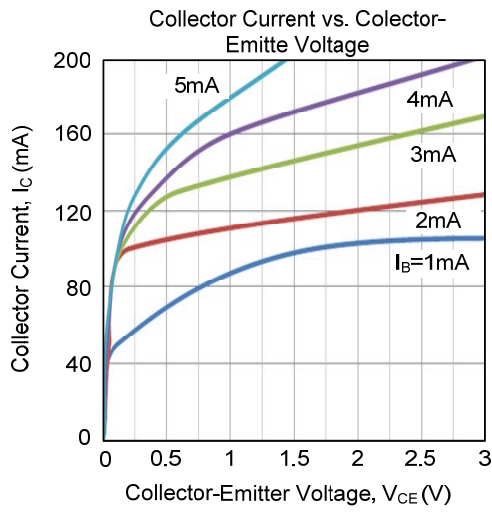
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$, unless otherwise specified)

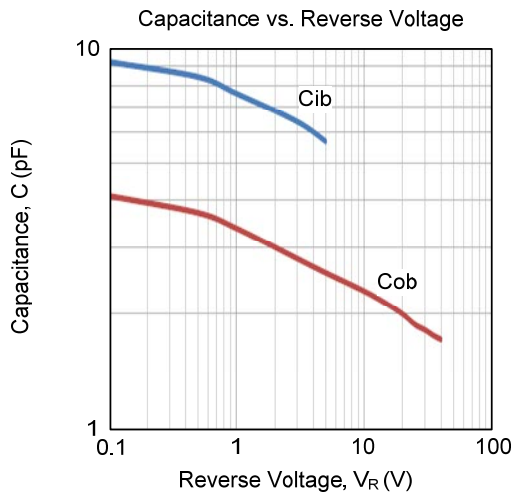
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Saturation Voltage (Note)	$V_{CE(SAT)}$	$I_C=50\text{mA}$, $I_B=5\text{mA}$			200	mV
Collector Cutoff Current	I_{CBO}	$I_E=0$, $V_{CB}=30\text{V}$			100	nA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=4\text{V}$, $I_C=0$			100	nA
DC Current Transfer Ratio	h_{FE}	$I_C=1\text{mA}$, $V_{CE}=6\text{V}$	120			
Transition Frequency	f_T	$I_C=2\text{mA}$, $V_{CE}=12\text{V}$, $f=100\text{MHz}$	100			MHz
Collector capacitance	C_C	$I_E=I_C=0$, $V_{CB}=12\text{V}$, $f=1\text{MHz}$			1.5	pF

Note: Pulse test: $t_p \leq 300\mu\text{s}$, $\delta \leq 0.02$.

■ TYPICAL CHARACTERISTICS



■ TYPICAL CHARACTERISTICS



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